

**DAMES & MOORE**

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6 COMMERCE DRIVE, CRANFORD, NEW JERSEY 07016-1101 (201) 272-5300

August 10, 1987

Ms. Janet Feldstein
SCP - Carlstadt Project Office
Emergency and Remedial Response Division
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York 10278

Re: Revision No. 3
Project Operations Plan
SCP Site Remedial Investigation
Carlstadt, New Jersey

Dear Ms. Feldstein:


The following revisions to the March 4, 1987 Project Operations Plan (POP) reflect our previous discussions and USEPA verbal approvals of modifications to the POP during July 1987.

1. Paragraph 7.9.5, Item (4): Pump out a minimum of three well volumes. However, for low-yielding wells, it is adequate to purge wells by pumping dry at least once and sampling within three hours of the wells reaching equilibrium.
2. Appendix A, Table A-2: A revised parameter table is attached.

To complete our documentation of the revisions, we request that the revisions be approved by the EPA in writing.

Very truly yours,

DAMES & MOORE


Gerard M. Coscia, P.E.
Project Manager

GMC/jhm
Attachment

cc: Mr. Thomas D. Morris
IBM Real Estate & Construction Division

Mr. Thomas M. Armstrong
General Electric Company

Mr. J. Koczan
Dames & Moore

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TABLE A-2
Parameter Table

Parameter	No. of Samples ⁽³⁾	Sample Matrix	Analytical Method and Reference ⁽⁴⁾	Sample Preservation	Holding Time
(1) Volatile Organics (plus xylenes, styrene and MEK)	16	Water	USEPA Method 624	Cool, 4°C	7 days
Extractable Organics	16	Water	USEPA Method 625	Cool, 4°C	7 days till extraction: 40 days till analysis
Metals	32 ⁽⁵⁾	Water	USEPA Method 200 series	Nitric acid to ⁽⁶⁾ pH 2 and cool, 4°C	6 months
PCB	16	Water	USEPA Method 608	Cool, 4°C	7 days till extraction: 40 days till analysis
Pesticides	16	Water	USEPA Method 608	Cool, 4°C	7 days till extraction: 40 days till analysis
Acidity	16	Water	USEPA Method 305.1	Cool, 4°C	14 days
Alkalinity	16	Water	USEPA Method 310.1	Cool, 4°C	14 days
Petroleum Hydrocarbons	16	Water	USEPA Method 418.1	Sulfuric acid to pH 2 and cool, 4°C	28 days
Total Cyanides	16	Water	USEPA Method 335.3	Sodium Hydroxide to pH 12 and cool, 4°C ⁽⁹⁾	14 days
Total Phenols	16	Water	USEPA Method 420.2	Sulfuric acid to pH 2 and cool, 4°C	28 days
(1) Volatile Organics (plus xylenes, styrene and MEK)	65	Soil	USEPA SW-846 (5030,8240)	Cool, 4°C	7 days
Extractable Organics	65	Soil	USEPA SW-846 (3540,8270)	Cool, 4°C	14 days till extraction: 40 days till analysis
Metals	65	Soil	USEPA SW-846 (3050,8010)	Cool, 4°C	6 months
PCB	65	Soil	USEPA SW-846 (3540,8080)	Cool, 4°C	7 days till extraction: 40 days till analysis
Pesticides	65	Soil	USEPA SW-846 (3540,8080)	Cool, 4°C	7 days till extraction: 40 days till analysis
(2) Petroleum Hydrocarbons	65	Soil	USEPA Method 418.1	Cool, 4°C	7 days
Total Cyanides	65	Soil	USEPA Method 335.2 ⁽⁷⁾	Cool, 4°C	14 days
Total Phenols	65	Soil	USEPA Method 420.1 ⁽⁸⁾	Cool, 4°C	28 days

References: Federal Register 40 CFR, Part 136, October 26, 1984.
Field Sampling Procedures Manual, New Jersey Dept. of Environmental Protection, November, 1985.
ECRA Sampling Plan Guide (draft), New Jersey Dept. of Environmental Protection, June, 1986.
Methods for Chemical Analysis of Water & Wastes, USEPA - 600/4-79-020, March 1983.

- Notes:
- (1) In the analysis of methyl ethyl ketone (MEK), styrene and xylenes from water samples, an extra spike is added for analyses using Method 624. For SW-846 analysis for soil samples, an extra spike is added and extraction procedures are followed.
 - (2) The method to be used for petroleum hydrocarbons in soil is as follows: Prepare sample as per oil and grease method as found in "Procedures for Handling and Chemical Analysis of Sediment and Water Samples", EPA/CE-81-1, NTIS #AD=A103788, then follow EPA Method 418.1 starting with paragraph 7.7 (note: add 3g silica gel for every 100 ml of final extract).
 - (3) Number of water samples reflects Round I water samples only. Round II water samples will be analyzed for target parameters only, following review of Round I sampling results and discussion with EPA. Number of soil samples includes eight sediment samples from Peach Island Creek.
 - (4) For USEPA SW-846 Analytical Methods, the number in parenthesis for each parameter are the the Method Work-up Number and the Method Analysis Number, respectively.
 - (5) Filtered and unfiltered samples will be collected.
 - (6) For filtered samples, preservative will be added after filtering. For unfiltered samples, preservative will be added directly to sample jars.
 - (7) As modified in the October 1986 CLP Statement of Work for Inorganics.
 - (8) Combined with the procedure outlined in EPA 600/4-81-055.
 - (9) After checking for the absence of sulfides with lead acetate paper.

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